88888888888 888888888888 888888888888	В	AAAAAAA AAAAAAA AAAAAAA	4	\$	RRRR	RRRRRRR RRRRRRR RRRRRRRR		
888	BBB	ÄÄÄ	AAA	\$\$\$ \$\$\$	RRR	RRR RRR		LLL
888	888	AAA	AAA	SSS	RRR	RRR	ΪΪΪ	
888	888	ÄÄÄ	AAA	SSS	RRR	RRR	İİİ	
BB <b>B</b>	BBB	AAA	AAA	ŠŠŠ	RRR	RRR	ήήή	LLL
888	BBB	AAA	AAA	SSS	RRR	RRR	ŤŤŤ	iii
8888888888	В	AAA	AAA	SSSSSSSS		RRRRRRR	ŤŤŤ	ili
8888888888		AAA	AAA	ŠŠŠŠŠŠŠŠŠ		RRRRRRR	ŤŤŤ	iii
8888888888		AAA	AAA	SSSSSSSS		RRRRRRR	TTT	ΙΙΙ
BBB	888			\$\$\$	RRR	RRR	TTT	LLL
888	888	*********		ŞŞŞ	RRR	RRR	ŢŢŢ	LLL
888	BBB			SSS	RRR	RRR	ŢŢŢ	LLL
88 <b>8</b>	BBB	AAA	AAA	SSS	RRR	RRR	III	řřř
888	888	AAA	AAA	SSS	RRR	RRR	ŢŢŢ	iřř
888	BBB	AAA	AAA	222	RRR	RRR	ŢŢŢ	LLL
88888888888888888888888888888888888888		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	ŢŢŢ	rrrrrrrrrrr
BBBBBBBBBBB		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	<b>!!!</b>	
00000000000	D	AAA	AAA	SSSSSSSSSS	RRR	RRR	TTT	

88888888 88 88 88 88 88 88 88 88 88 88 88 88 888888	AAAAAA AA AA AA AA	\$	88888888 8888888 88 8 88 8 88 8 88 8 8
		\$	

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2122345678901233533333

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MODULE BAS\$BUFSIZ ( IDENT = '1-003' ) =

! Get buffer size ! File: BASBUFSIZ.B32, Edit: JBS1003

BEGIN

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FACILITY: VAX-11 BASIC Miscellaneous I/O

ABSTRACT:

This module contains the BASIC BUFSIZ function, which returns the buffer size of the file open on the specified channel.

ENVIRONMENT: VAX-11 User Mode

AUTHOR: John Sauter, CREATION DATE: 11-APR-1979

MODIFIED BY:

1-001 - Original.

1-002 - Set up ISB\$A\_USER\_FP. JBS 25-JUL-1979 1-003 - Use channel 0, not device TT. JBS 11-MAR-1980

1 !<BLF/PAGE>

1 !--

```
52
53
54
55
                             SWITCHES:
                0054
0055
 5578901234567
                          SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                          ! LINKAGES:
                0059
                0060
                           REQUIRE 'RTLIN:OTSLNK';
                 0061
                                                                                        ! Define linkages
                 0490
                 0491
                           ! TABLE OF CONTENTS:
                 0494
 68
69
71
77
77
77
77
77
                          FORWARD ROUTINE
                 0495
                 0496
                                BAS$BUFSIZ;
                                                                                        ! Return buffer size
                 0497
                 0498
                 0499
                             INCLUDE FILES:
                 0500
                 0501
                0502
0642
0643
                                                                                        ! Get LUB definitions
                          REQUIRE 'RTLML:OTSLUB';
                          REQUIRE 'RTLML:OTSISB':
                                                                                        ! Get ISB definitions
 78
79
                 0811
                          REQUIRE 'RTLIN: RTLPSECT';
                                                                                        ! Macros for defining psects
 80
                0907
 81
                          LIBRARY 'RTLSTARLE';
                                                                                        ! System symbols
 82
83
                 0910
                             MACROS:
                 0911
 85
 86
                                     NONE
 87
 88
                             EQUATED SYMBOLS:
                0916
0917
 89
 90
                                     NONE
 91
                 0918
 92
93
                             PSECTS:
                 0920
 94
95
                                                                                        ! Declare psects for BAS$ facility
                           DECLARE_PSECTS (BAS);
 96
97
                             OWN STORAGE:
 98
                                     NONE
 99
100
                             EXTERNAL REFERENCES:
101
102
                 0930
                          EXTERNAL ROUTINE
                                BAS$$OPEN ZERO : NOVALUE,
BAS$$CB_POSH : JSB_CB_PUSH NOVALUE,
BAS$$CB_POP : JSB_CB_POP NOVALUE,
BAS$$STOP : NOVALUE;
                                                                                           Open channel O
104
                 0931
                                                                                        Load register (CB
Done with register (CB
Signal fatal error
                0932
105
106
107
108
```

```
0943
                        GLOBAL ROUTINE BAS$BUFSIZ (
                                                                               ! Return buffer size
! Channel whose buffer size to return
118
               0944
                                 CHAN
119
               0945
               0946
1212345678901234567890
1112345678901234567890
               0947
               0948
                          FUNCTIONAL DESCRIPTION:
               0949
               0950
                                 Returns the size of the buffer for the specified channel.
               0951
                                 If the channel is closed a zero is returned.
               0952
                          FORMAL PARAMETERS:
               0954
               0955
                                 CHAN.rl.v
                                                    The channel whose buffer size to return.
               0956
               0957
                          IMPLICIT INPUTS:
               0958
               0959
                                 The LUB$W_RBUF_SIZE field of the LUB of the specified channel.
               0960
               0961
                          IMPLICIT OUTPUTS:
               0962
               0963
                                 NONE
               0964
               0965
                          ROUTINE VALUE:
               0966
141
142
143
144
145
               0967
                                 The number of bytes in the buffer, as a longword integer.
               0968
               0969
                          SIDE EFFECTS:
               0970
               0971
                                 Signals if an error is encountered.
               0972
0973
146
147
148
150
151
153
156
157
158
159
                                 BASSSCB_PUSH will signal if the channel number is invalid.
               0974
               0975
               0976
                            BEGIN
               0977
               0978
                             BUILTIN
               0979
                                 FP;
               0980
               0981
                             GLOBAL REGISTER
               0982
                                 CCB = K_CCB_REG : REF BLOCK [, BYTE];
               0983
               0984
                             LOCAL
               0985
                                 BUFFER_SIZE,
               0986
0987
                                 FMP : REF BLOCK [, BYTE]:
160
161
               0988
162
                             fMP = .fP:
               0989
163
               0990
                        If this is channel zero, get the user's terminal, and be sure it is open.
164
               0991
165
               0992
166
               0993
167
                             IF (.CHAN EQL 0)
               0994
                             THEN
168
               0995
169
                                 BEGIN
               0996
170
                                 BAS$$CB_PUSH (LUB$K_LUN_INPU, LUB$K_ILUN_MIN);
171
               0997
                                 CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
172
173
               0998
                                 IF ( NOT .CCB [LUB$v_OPENED]) THEN BAS$$OPEN_ZERO (.FMP [SF$L_SAVE_FP]);
               0999
```

```
Ļ 15
BAS$BUFSIZ
1-003
                                                                                   16-Sep-1984 00:02:51
14-Sep-1984 11:54:43
                                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                  Page
                                                                                                                                                                        (3)
                                                                                                                   [BASRTL.SRC]BASBUFSIZ.B32:1
                     1000
1001
1002
1003
1004
1005
1006
1007
   174
175
                                          END
   176
                                    ELSE
    177
                                         BEGIN
                                         BASSSCB_PUSH (.CHAN, LUBSK_LUN_MIN);
CCB_CISBSA_USER_FP] = .FMP_[SFSL_SAVE_FP];
    178
    179
   180
181
182
183
184
185
                                          END:
                     1008
                     1009
                                 Get the buffer size from the Logical Unit Block. This will be zero
                               ! if the channel has not been opened.
                     1010
                     1011
                     1012
    186
                                    BUFFER_SIZE = .CCB [LUB$W_RBUF_SIZE];
    187
                     1014
                               ! We are done with register (CB.
    188
                     1015
    189
                     1016
    190
                                    BAS$$(B_POP ();
    191
    192
                     1018
                               ! All done.
    193
                     1019
                     1020
    194
                                    RETURN (.BUFFER_SIZE);
   195
                                                                                              ! end of BAS$BUFSIZ
                                    END:
                                                                                                 .TITLE BAS$BUFSIZ
                                                                                                 .IDENT
                                                                                                          \1-003\
                                                                                                           BAS$$OPEN_ZERO, BAS$$CB_PUSH
BAS$$CB_POP, BAS$$STOP
                                                                                                 .EXTRN
                                                                                                 .EXTRN
                                                                                                 .EXTRN
                                                                                                           BAS$K_PROLOSSOR
                                                                                                 .PSECT
                                                                                                           _BAS$CODE,NOWRT, SHR, PIC,2
                                                                                                           BAS$BUFSIZ, Save R2,R3,R4,R11
BAS$$CB_PUSH, R4
                                                                        081C 00000
                                                                                                 .ENTRY
                                                                                                                                                                       0943
                                                                          9E 00002
                                                      0000000G
                                                                     00
                                                                                                 MOVAB
                                                                                                                                                                       0988
                                                                                                           FP, FMP
                                                                     5D
                                                                          DO 00009
                                                                                                 MOVL
                                                                          D5 0000C
12 0000F
CE 00011
                                                                     AC
                                                                                                                                                                       0993
                                                               04
                                                                                                 TSTL
                                                                                                           CHAN
                                                                                                 BNEQ
                                                                                                           15
                                                   50
52
                                                                     08
07
                                                                                                           #8, R0
#7, R2
BA$$$CB_PUSH
                                                                                                                                                                       0996
                                                                                                 MNEGL
                                                                          ČĒ
16
                                                                              00014
                                                                                                 MNEGL
                                                                     64
                                                                              00017
                                                                                                 JSB
                                                                                                                                                                       0997
                                                                     A3
                                          FF4C
                                                   CB
                                                                          D0
                                                                              00019
                                                                                                 MOVL
                                                                                                           12(FMP), -180(CCB)
                                                                     AB
A3
01
                                                               FC
OC
                                                                                                                                                                       0999
                                                   1A
                                                                          E8
                                                                              0001F
                                                                                                 BLBS
                                                                                                           -4(CCB), 2$
                                                                          DD
                                                                              00023
                                                                                                 PUSHL
                                                                                                           12(FMP)
                                                                          FB
11
                                                                                                           #1, BASSSOPEN_ZERO 25
                                     0000000G
                                                   00
                                                                              00026
                                                                                                CALLS
                                                                     ÕĒ
50
                                                                                                                                                                       0993
                                                                              00050
                                                                                                 BRB
                                                                              0002F 15:
                                                                                                                                                                       1004
                                                                          D4
                                                                                                 CLRL
                                                                                                          CHAN, R2
BAS$$CB_PUSH
12(FMP), -180(CCB)
-46(CCB), BUFFER_SIZE
BAS$$CB_POP
                                                                              00031
                                                   52
                                                               04
                                                                     AC
                                                                          D0
                                                                                                 MOVL
                                                                     64
A3
                                                                           16
                                                                              00035
                                                                                                 JSB
                                                   CB
52
                                                                          DO
30
16
                                                                                                                                                                       1005
                                                               00
                                                                              00037
                                          FF4C
                                                                                                 MOVL
                                                                     AB
00
52
                                                                                                                                                                       1012
                                                                                                 MOVŽWL
                                                                              0003D 2$:
                                                                                                                                                                       1016
                                                       0000000G
                                                                              00041
                                                                                                 JSB
                                                                              00047
                                                                           DO
                                                                                                           BUFFER_SIZE, RO
                                                                                                 MOVL
                                                                                                                                                                       1021
                                                                              0004A
                                                                                                 RET
```

Routine Base: \_BAS\$CODE + 0000

; Routine Size: 75 bytes,

M 15 BAS\$BUFS1Z 1-003 16-Sep-1984 00:02:51 14-Sep-1984 11:54:43 VAX-11 Bliss-32 v4.0-742 [BASRTL.SRC]BASBUFSIZ.B32;1 Page 6 (3) 196 197 198 199 END ! end of module BAS\$BUFSIZ O ELUDOM **PSECT SUMMARY** Name Bytes Attributes \_BAS\$CODE 75 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2) Library Statistics ----- Symbols -----Pages Processing file Total Loaded Percent Time Mapped 9776 \_\$255\$DUA28:[SYSLIB]STARLET.L32;1 1 0 581 00:01.2 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASBUFSIZ/OBJ=OBJ\$:BASBUFSIZ MSRC\$:BASBUFSIZ/UPDATE=(ENH\$:BASBUFSIZ

75 code + 0 data bytes 00:08.3

00:20.5

Size: Run Time:

Elapsed Time: 00:20. Lines/CPU Min: 7436 Lexemes/CPU-Min: 45155

: Lexemes/CPU-min: 43133 : Memory Used: 115 pages : Compilation Complete

0019 AH-BT13A-SE

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